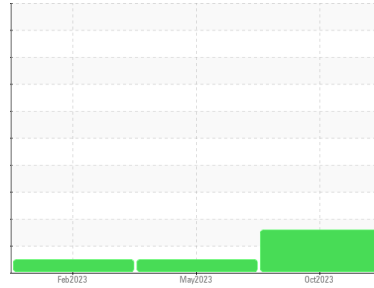


Machine Id
5134

Component
Gasoline Engine

Fluid
PETRO CANADA SUPREME 5W30 (--- GAL)



DIAGNOSIS

Recommendation

Nous vous recommandons de vérifier le filtre à air, le système d'induction d'air et tout endroit où la saleté peut entrer dans le composant. Nous avons pris note que l'huile a été vidangée et le filtre remplacé au moment de l'échantillonnage. Nous vous recommandons d'échantillonner de nouveau dès que possible afin de contrôler la situation. Aucune autre mesure corrective n'est recommandée pour l'instant.

Wear

Les taux d'usure de tous les composants sont normaux.

Contamination

Légère dilution de carburant dans l'huile. Concentration modérée de saleté dans l'huile. Aucun autre contaminant n'a été détecté dans l'huile.

Fluid Condition

Le résultat pour le BN indique que la réserve d'alcalinité est acceptable pour l'huile. l'huile ne peut plus être utilisée en raison de la présence de contaminants.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	PC0073408	PC0073880	PC0063351
Sample Date	Client Info	10 Oct 2023	08 May 2023	08 Feb 2023
Machine Age	kms	127070	115181	95626
Oil Age	kms	11965	9217	12055
Oil Changed	Client Info	Changed	Changed	Changed
Sample Status		ABNORMAL	NORMAL	NORMAL

CONTAMINATION

method	limit/base	current	history1	history2
Glycol	WC Method	NEG	NEG	NEG

WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185(m) >150	6	4	6
Chromium	ppm ASTM D5185(m) >20	0	0	0
Nickel	ppm ASTM D5185(m) >5	<1	<1	<1
Titanium	ppm ASTM D5185(m)	0	<1	<1
Silver	ppm ASTM D5185(m) >2	<1	0	0
Aluminum	ppm ASTM D5185(m) >40	2	2	2
Lead	ppm ASTM D5185(m) >50	0	0	<1
Copper	ppm ASTM D5185(m) >155	<1	<1	<1
Tin	ppm ASTM D5185(m) >10	0	<1	<1
Antimony	ppm ASTM D5185(m)	0	<1	<1
Vanadium	ppm ASTM D5185(m)	0	0	0
Beryllium	ppm ASTM D5185(m)	0	0	0
Cadmium	ppm ASTM D5185(m)	0	0	0

ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185(m) 186	44	71	56
Barium	ppm ASTM D5185(m) <1	<1	0	0
Molybdenum	ppm ASTM D5185(m) 79	71	71	69
Manganese	ppm ASTM D5185(m) 0	0	<1	<1
Magnesium	ppm ASTM D5185(m) 578	496	496	476
Calcium	ppm ASTM D5185(m) 1002	1207	1217	1272
Phosphorus	ppm ASTM D5185(m) 745	648	664	677
Zinc	ppm ASTM D5185(m) 837	736	734	729
Sulfur	ppm ASTM D5185(m) 2502	2314	2369	2433
Lithium	ppm ASTM D5185(m)	<1	<1	<1

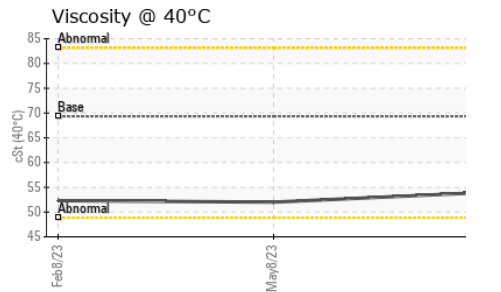
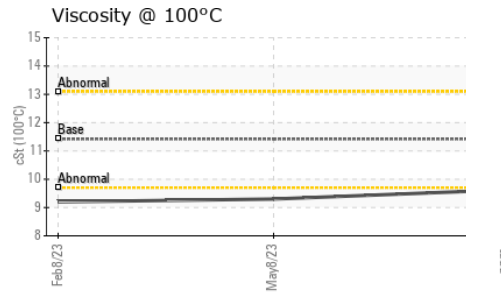
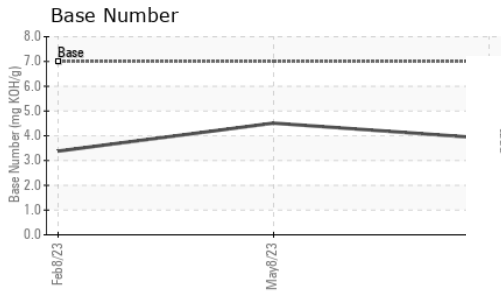
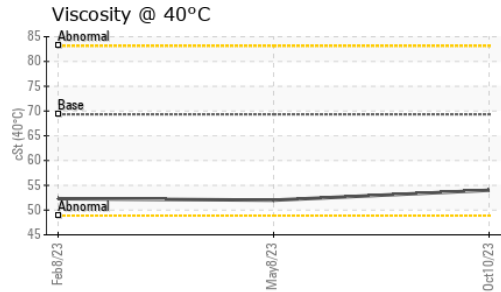
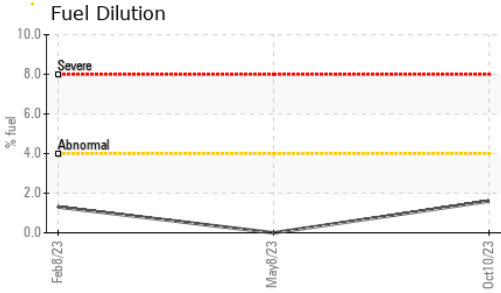
CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185(m) >30	▲ 34	25	22
Sodium	ppm ASTM D5185(m) >400	4	4	4
Potassium	ppm ASTM D5185(m) >20	0	<1	<1
Fuel	% ASTM D7593* >4.0	1.6	<1.0	1.3

INFRA-RED

method	limit/base	current	history1	history2
Soot %	% ASTM D7844*	0	0	0
Nitration	Abs/cm ASTM D7624* >20	12.5	11.2	12.7
Sulfation	Abs./1mm ASTM D7415* >30	26.8	23.7	26.5

OIL ANALYSIS REPORT

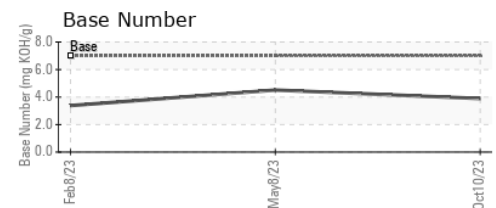
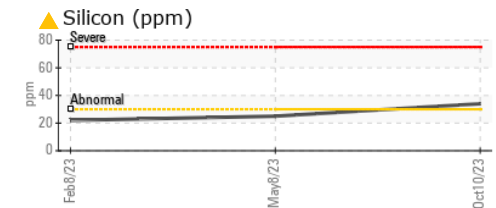
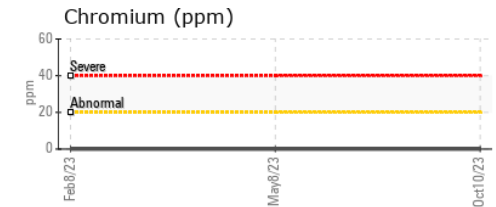
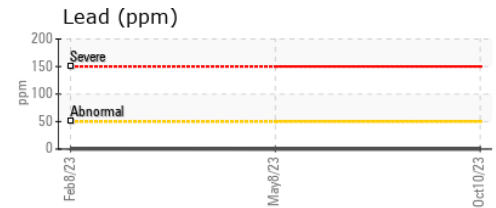
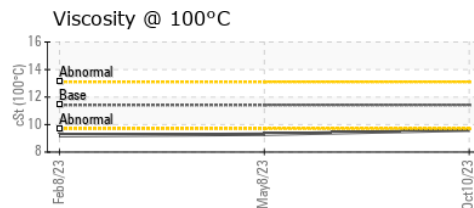
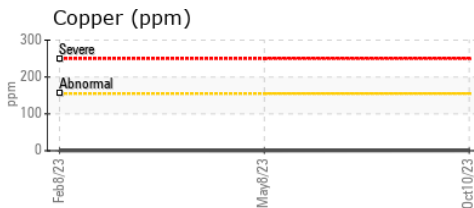
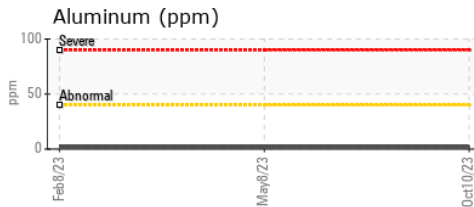
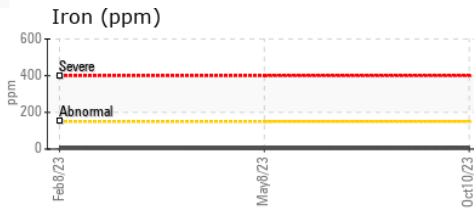


FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs./1mm	ASTM D7414*	>25	18.8	15.4	17.2
Base Number (BN)	mg KOH/g	ASTM D2896*	7.0	3.89	4.51	3.38

VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	VLITE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	NONE
Precipitate	scalar	Visual*	NONE	NONE	NONE	NONE
Silt	scalar	Visual*	NONE	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE	NONE
Appearance	scalar	Visual*	NORML	NORML	NORML	NORML
Odor	scalar	Visual*	NORML	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG
Free Water	scalar	Visual*		NEG	NEG	NEG

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	69.33	54.0	52.0	52.3
Visc @ 100°C	cSt	ASTM D7279(m)	11.42	9.6	9.3	9.2
Viscosity Index (VI)	Scale	ASTM D2270*	159	163	163	158

GRAPHS



ISO 17025:2017
Accredited
Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0073408 **Received** : 16 Oct 2023
Lab Number : **02589278** **Diagnosed** : 18 Oct 2023
Unique Number : 5658344 **Diagnostician** : Kevin Marson
Test Package : MOB 2 (Additional Tests: FuelDilution, KV40, PercentFuel, VI)

To discuss this sample report, contact Customer Service at 1-800-268-2131.
 Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.
 Validity of results and interpretation are based on the sample and information as supplied.

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